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Curiel, Tyler  
Morris, Cindy

<120> Dendritic Cell Binding Proteins and  
Uses Thereof

<130> D6486PCT

<141> 2004-04-08

<150> US 60/461,474  
<151> 2003-04-09

<160> 40

<210> 1  
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<220>  
<221> PEPTIDE  
<223> peptide specific to myeloid dendritic cells

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Tyr Pro Ile Val Asn Thr Ala Val Ala Thr His Met  
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<223> peptide specific to myeloid dendritic cells

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<223> peptide specific to myeloid dendritic cells

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Phe Tyr Pro Ser Tyr His Ser Thr Pro Gln Arg Pro  
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<223> peptide specific to myeloid dendritic cells;  
Xaa = unknown at position 7

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<223> peptide specific to myeloid dendritic cells

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His His Asn Ser Asn His Arg Ser Phe His Tyr Leu  
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<400> 8

Ser Tyr Ala Asn Leu Ile Arg Ser Ile Gln Pro Gly  
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<221> PEPTIDE

<223> peptide specific to myeloid dendritic cells

<400> 9

Thr Leu Val His Gln Trp Gln Pro Trp Pro Lys Ala  
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<221> PEPTIDE

<223> peptide specific to myeloid dendritic cells

<400> 10

Ile Arg His Thr Thr Ser Gly Pro Pro Pro Ser Ser  
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<223> peptide specific to myeloid dendritic cells

<400> 11

Tyr Pro Gln Ala Leu Asn Thr Gln Pro Asp Trp Pro  
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<221> PEPTIDE

<223> peptide specific to myeloid dendritic cells

<400> 12

Ala Tyr Tyr Lys Thr Ala Ser Leu Ala Pro Ala Glu  
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<223> peptide specific to myeloid dendritic cells

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Ser Gln Asn Ser Leu Tyr Ser Ser Lys Pro Val Arg  
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Ser Leu Ser Leu Leu Thr Met Pro Gly Asn Ala Ser  
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Gln Ser Gln Thr Tyr Gln Thr His Ser Val Thr Met  
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Glu Pro Ile His Pro Glu Thr Thr Phe Thr Asn Asn  
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Glu Thr Pro Met Val His Trp Pro Ser Thr Ser Pro  
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Ser Leu Ser Leu Leu Thr Met Pro Gly Asn Ala Ser  
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Asn Trp Trp Ser Asp Trp Val Met Leu Thr Gln Ser  
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Gln Trp Pro Gln Tyr His Tyr Leu Arg Pro Thr Leu  
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<223> peptide specific to Langerhans dendritic cells

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Ser Ile Thr Gln His Leu Gln Leu Lys Pro Leu Ala  
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<222> 9

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Xaa = unknown at position 9

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<400> 23

Val Ser Ser Pro Pro Arg Val Ser Gly Ile Gly Leu  
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<223> peptide specific to Langerhans dendritic cells

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His Ser Leu Arg Leu Asp Phe Met Ala Pro Leu Thr  
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Leu Pro Pro Gly Ala Asp Leu Tyr Phe His Pro Ser  
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<400> 27

Ile Pro Pro Leu Arg Ile Thr Glu Val Thr Pro Thr  
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<400> 28

Ile Arg His Thr Thr Ser Gly Pro Pro Pro Ser Ser  
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<221> PEPTIDE  
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<400> 29

Val Ser Ser Pro Pro Arg Val Ser Gly Ile Gly Leu  
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<223> peptide specific to Langerhans dendritic cells;  
Xaa = unknown at position 10

<400> 30

Lys Ile Met Gln Ser Pro Leu Gln His Xaa Ala Pro  
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<210> 31  
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<220>

<221> PEPTIDE

<222> 4

<223> peptide specific to Langerhans dendritic cells;  
Xaa = unknown at position 4

<400> 31

Lys Val Trp Xaa Ile Asp Trp Pro Pro Pro Ala Tyr  
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<210> 32

<211> 12

<212> PRT

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<220>

<221> PEPTIDE

<222> 10

<223> peptide specific to Langerhans dendritic cells;  
Xaa = unknown at position 10

<400> 32

Ala Asp Arg Ser Arg Glu Leu Ala Leu Xaa Ile Phe  
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<210> 33

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<220>

<221> PEPTIDE

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<400> 33

Ile Ile Pro Ser Thr Ala Asn Lys Ser Ile Ala Thr  
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<220>

<221> PEPTIDE

<223> peptide specific to Langerhans dendritic cells

<400> 34

Ser Asn Leu Ser Arg Thr Thr Leu Tyr Ser Gln Val  
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<400> 35

His Ser Leu Arg Ser Asp Trp Val Ser Pro Asn Thr  
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<400> 36

Ser Ser Thr Ile Asn Tyr Asn Arg Leu Asn Leu His  
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<400> 37

Ser Leu His Arg Ser Ser Ser Leu Pro Ile Ser Thr  
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<210> 38  
<211> 12  
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<221> PEPTIDE  
<223> 12-mer peptide used as negative control

<400> 38

Glu Pro Ile His Pro Glu Thr Thr Phe Thr Asn Asn  
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<212> DNA  
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<220>  
<221> primer\_binding  
<223> forward primer to fusion protein of DC-  
binding peptide #3 and immunodominant domains  
of HER2/Neu

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catgccatgg agaagatctt tgggagcctg gcatttctgc cggagagctt 50  
tgatgggac cctcgaggcg gaggtcgtag actgctgcag gaaac 85

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<211> 80  
<212> DNA  
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<220>  
<221> primer\_binding  
<223> reverse primer to fusion protein of DC-  
binding peptide #3 and immunodominant  
domains of HER2/Neu

<400> 40

gccggtacct gggggtccct ggccatgcgg gagaattcag acaccaactc 50  
tccggccacccg ctaggtgtca gcggtccac 80